

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicant: Braun, *et al.*

Serial No. 09/687,483

Filed: October 13, 2000

For: METHODS FOR GENERATING  
DATABASES AND DATABASES FOR  
IDENTIFYING POLYMORPHIC  
GENETIC MARKERS

Art Unit: 1645

Examiner: Unassigned

**INFORMATION DISCLOSURE STATEMENT IN  
ACCORDANCE WITH 37 C.F.R. §§ 1.97-1.98**

Assistant Commissioner for Patents  
Washington, D.C. 20231

Dear Sir:

Because this Information Disclosure Statement is filed prior to receipt of a First Office Action on the Merits for the above-captioned application, a fee for filing this statement should not be due. If, however, it is determined that a fee is due, the Commissioner is authorized to charge the unpaid amount to Deposit Account No. 50-1213.

In accordance with the duty of disclosure imposed by 37 C.F.R. §1.56 to inform the Patent Office of all references known by Applicant or Applicant's representative that may be material to the examination of the subject application, Applicant's representative hereby provides this Information Disclosure Statement that is prepared in accordance with 37 C.F.R. §§1.97-1.98. Forms PTO-1449 (12 pages) and cited references are provided herewith in connection with the above-captioned application.

The documents listed on the Forms PTO-1449 and supplied herewith are in the English language with exception of item CL. International Patent Application No. WO 99/50447 (item CL), which is in the German language, is provided with an English language abstract. Hence, in accordance with the requirements of 37 C.F.R. §1.98, as amended effective March 16, 1992, no further explanation of the listed items is necessary.

While the applicant does not wish to convey that the following references are the

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most relevant among the references cited, the following references are called to the attention of the Office: Item nos. CL, CU, DX, FL, GL, GM, and GP.

Applicant also makes known to the Examiner the following co-pending U.S. and International applications that have one or more common inventors and/or one or more common owners:

<u>U.S.S.N.</u>	<u>Filing Date</u>
08/467,208	06/06/95
08/481,033	06/07/95
08/617,010	03/18/96
08/744,481	11/06/96
08/786,988	01/23/97
08/922,201	09/02/97
08/947,801	10/08/97
09/146,054	09/02/98
09/179,536	10/26/98
09/266,409	03/10/99
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09/364,774	07/30/99
09/371,150	08/09/99
09/397,766	09/15/99
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09/495,444	01/31/00
09/504,245	02/15/00
09/566,591	05/08/00
09/584,258	05/31/00
09/604,696	06/26/00
09/628,478	07/31/00
09/664,977	09/18/00
09/678,620	10/02/00
09/680,581	10/05/00
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09/724,877	11/28/00
60/037,165	02/04/97
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60/217,658	07/10/00
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Int'l Appln.  
PCT/US00/28413

Filing Date  
10/13/00

Although these documents and information are made known to the Patent and Trademark Office in compliance with Applicant's duty of disclosure, such disclosure is not to be construed as an admission by Applicant or Applicant's representative that any of the references, singly or in any combination thereof, is effective as prior art against the subject application. In accordance with 37 C.F.R. §1.97(h), the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made or that no other material information as defined in 37 C.F.R. §1.56(b) exists.

Applicant respectfully requests that the Examiner review the foregoing references and they be made of record in the file history of the above-captioned application.

\* \* \*

Respectfully submitted,  
HELLER EHRMAN WHITE & McAULIFFE LLP

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Registration No. 33,779

**Dated: February 15, 2001**  
Attorney Docket No. 24736-2033  
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LIST OF PATENTS AND PUBLICATIONS FOR  
APPLICANT'S INFORMATION DISCLOSURE  
STATEMENT

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER							DATE	NAME	CLASS	SUB CLASS	FILING DATE
	AA	4	6	8	3	1	9	5	07/28/87	Mullis <i>et al.</i>	435	6	02/07/86
	AB	4	6	8	3	2	0	2	07/28/87	Mullis	435	91	10/25/85
	AC	4	8	2	6	3	6	0	05/02/89	Iwasawa <i>et al.</i>	406	51	02/25/87
	AD	4	8	5	1	0	1	8	07/25/89	Lazzari <i>et al.</i>	55	356	11/20/87
	AE	5	1	1	8	9	3	7	06/02/92	Hillenkamp <i>et al.</i>	250	282	08/21/90
	AF	5	4	3	6	1	5	0	07/25/95	Chandrasegaran	435	199	09/27/93
	AG	5	4	4	0	1	1	9	08/08/95	Labowsky	250	282	03/30/94
	AH	5	4	5	3	6	1	3	09/26/95	Gray <i>et al.</i>	250	281	10/21/94
	AI	5	4	9	8	5	4	5	03/12/96	Vestal	436	47	07/21/94
	AJ	5	5	0	3	9	8	0	04/02/96	Cantor	435	6	10/17/94
	AK	5	5	0	6	1	3	7	04/09/96	Mathur <i>et al.</i>	435	252.3	07/22/93
	AL	5	5	3	6	6	4	9	07/16/96	Fraiser <i>et al.</i>	435	91.2	07/29/94
	AM	5	5	4	7	8	3	5	08/20/96	Koster <i>et al.</i>	435	6	01/06/94
	AN	5	6	0	4	0	9	8	02/18/97	Mead <i>et al.</i>	435	6	12/22/94
	AO	5	6	0	5	7	9	8	02/25/97	Koster <i>et al.</i>	435	6	03/17/95
	AP	5	6	2	2	8	2	4	04/22/97	Koster <i>et al.</i>	435	6	02/10/95
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	AR	5	6	9	1	1	4	1	11/25/97	Köster	435	6	06/06/95
	AS	5	7	0	0	6	7	2	12/23/97	Mathur <i>et al.</i>	435	183	07/23/92
	AT	5	7	1	4	3	3	0	02/03/98	Brenner <i>et al.</i>	435	6	06/21/96
	AU	5	7	7	7	3	2	4	07/07/98	Hillenkamp	250	288	09/19/96
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	AW	5	8	4	3	6	6	9	12/01/98	Kaiser <i>et al.</i>	435	6	11/29/96
	AX	5	8	5	1	7	6	5	12/22/98	Koster	435	6	05/30/95

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	AY	5	8	5	8	7	0	5	01/12/99	Wei <i>et al.</i>	435	69.1	06/05/95
	AZ	5	8	7	1	9	1	1	02/16/99	Dahlberg <i>et al.</i>	435	6	02/09/95
	BA	5	8	7	2	0	0	3	02/16/99	Köster	435	283.1	05/30/95
	BB	5	8	7	4	2	8	3	02/23/99	Harrington <i>et al.</i>	435	252.3	05/30/95
	BC	5	8	8	5	8	4	1	03/23/99	Higgs, Jr. <i>et al.</i>	436	89	09/11/96
	BD	5	8	8	8	7	9	5	05/30/99	Hamilton	435	200	09/09/97
	BE	5	9	0	0	4	8	1	05/04/99	Lough <i>et al.</i>	536	55.3	11/06/96
	BF	5	9	2	8	9	0	6	07/27/99	Koster <i>et al.</i>	435	91.2	05/09/96
	BG	5	9	5	2	1	7	6	09/14/99	McCarthy <i>et al.</i>	435	6	12/21/95
	BH	5	9	7	6	8	0	6	11/02/99	Mahajan <i>et al.</i>	435	6	05/27/98
	BI	6	0	2	2	6	8	8	02/08/00	Jurinke <i>et al.</i>	435	6	05/13/96
	BJ	6	0	2	4	9	2	5	02/15/00	Little <i>et al.</i>	422	100	01/23/97
	BK	6	0	4	3	0	3	1	03/28/00	Koster <i>et al.</i>	435	6	03/18/96
	BL	6	0	5	4	2	7	6	04/25/00	Macevicz	435	6	02/23/98
	BM	6	0	7	4	8	2	3	06/13/00	Koster <i>et al.</i>	435	6	11/06/96
	BN	6	0	9	0	6	0	6	07/18/00	Kaiser <i>et al.</i>	435	199	12/02/96
	BO	6	0	9	9	5	5	3	08/08/00	Hart <i>et al.</i>	606	232	05/21/98
	BP	6	1	3	3	4	3	6	10/17/00	Koster <i>et al.</i>	536	24.3	09/19/97
	BQ	6	1	4	0	0	5	3	10/31/00	Koster <i>et al.</i>	435	6	09/25/98
	BR	6	1	4	6	8	5	4	11/14/00	Koster <i>et al.</i>	435	91.1	08/31/95

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUB CLASS	Translation Yes No	
	BS	0	0	5	6	4	4	6	09/28/00	PCT				

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		DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUB CLASS	Translation	
													Yes	No
	BT	0	0	6	0	3	6	1	11/12/00	PCT				
	BU	0	5	9	6	2	0	5	05/11/94	EP				
	BV	2	7	4	9	6	6	2	12/12/97	FR				
	BW	9	3	1	5	4	0	7	08/05/93	PCT				
	BX	9	4	1	6	1	0	1	07/21/94	PCT				
✓	BY	9	4	2	1	8	2	2	09/29/94	PCT				
✓	BZ	9	6	2	9	4	3	1	09/26/96	PCT				
✓	CA	9	7	0	3	2	1	0	01/30/97	PCT				
✓	CB	9	7	0	8	3	0	6	03/06/97	PCT				
✓	CC	9	7	3	7	0	4	1	10/09/97	PCT				
✓	CD	9	7	4	2	3	4	8	11/13/97	PCT				
✓	CE	9	7	4	3	6	1	7	11/20/97	PCT				
✓	CF	9	8	2	0	0	1	9	05/14/98	PCT				
✓	CG	9	8	2	0	0	2	0	05/14/98	PCT				
●	CH	9	8	2	0	1	6	6	05/14/98	PCT				
	CI	9	8	3	3	8	0	8	08/06/98	PCT				
	CJ	9	9	1	2	0	4	0	03/11/99	PCT				
	CK	9	9	3	1	2	7	8	06/24/99	PCT				
	CL	9	9	5	0	4	4	7	10/07/99	PCT				
	CM	9	9	5	4	5	0	1	10/28/99	PCT				
	CN	9	9	5	7	3	1	8	11/11/99	PCT				

## OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

CO	Arrand et al., Different Substrate Specificities of the Two DNA Ligases of Mammalian Cells, <i>J. Biol. Chem.</i> 261(20):9079-82 (1986).
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## OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

CP	Badger <i>et al.</i> , New features and enhancements in the X-PLOR computer program, <i>Proteins: Structure, Function, and Genetics</i> 35(1):25-33 (1999)
CQ	Beck <i>et al.</i> , Chemiluminescent detection of DNA: application for DNA sequencing and hybridization, <i>Nucl. Acids Res.</i> 17(13):5115-23 (1989).
CR	Bertina <i>et al.</i> , Mutation in blood coagulation factor V associated with resistance to activated protein C, <i>Nature</i> 369:647 (1994).
CS	Bessho <i>et al.</i> , Nucleotide excision repair 3' endonuclease XPG stimulates the activity of base excision repair enzyme thymine glycol DNA glycosylase, <i>Nucl. Acids Res.</i> 27(4):79-83 (1999).
CT	Bjelland, S. and E. Seeberg, Purification and characterization of 3-methyladenine DNA glycosylase I from <i>Escherichia coli</i> , <i>Nucl. Acids Res.</i> 15(7):2787-2800 (1987).
CU	Blecinski, C. and C. Richert, Monitoring the Hybridization of the Components of Oligonucleotide Mixtures to Immobilized DNA via Matrix-assisted Laser Desorption/Ionization Time-of-flight Mass Spectrometry, <i>Rapid Communications in Mass Spectrometry</i> 12:1737-43 (1998).
CV	Braun <i>et al.</i> , Detecting <i>CFTR</i> gene mutations by using primer oligo base extension and mass spectrometry, <i>Clinical Chemistry</i> 43(7):1151-8 (1997).
CW	Braun <i>et al.</i> , Improved Analysis of Microsatellites Using Mass Spectrometry, <i>Genomics</i> 46:18-23 (1997).
CX	Bregman <i>et al.</i> , Molecular Characterization of Bovine Brain P75, a High Affinity Binding Protein for the Regulatory Subunit of cAMP-dependent Protein Kinase II $\beta$ , <i>J. Biol. Chem.</i> 266(11):7207-13 (1991).
CY	Buetow <i>et al.</i> , High-throughput development and characterization of a genomewide collection of gene-based single nucleotide polymorphism markers by chip-based matrix-assisted laser desorption/ionization time-of-flight mass spectrometry, <i>Proc. Natl. Acad. Sci. USA</i> 98(2):581-4 (2001).
CZ	Burton <i>et al.</i> , Type II regulatory subunits are not required for the anchoring-dependent modulation of CA <sup>2+</sup> channel activity by cAMP-dependent protein kinase, <i>Proc. Natl. Acad. Sci. USA</i> 94:11067-72 (1997).
DA	Carr <i>et al.</i> , Association of the Type II cAMP-dependent Protein Kinase with a Human Thyroid RII-anchoring Protein, <i>J. Biol. Chem.</i> 267(19):13376-82 (1992).
DB	Carr <i>et al.</i> , Interaction of the Regulatory Subunit (RII) of cAMP-dependent Protein Kinase with RII-anchoring Protein Occurs through an Amphipathic Helix Binding Motif, <i>J. Biol. Chem.</i> 266(22):14188-92 (1991).

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## OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

DC	Chiu et al., Mass Spectrometry of Nucleic Acids, <u>Clin. Chem.</u> 45:1578 (1999).
DD	Chiu et al., Mass Spectrometry of single-stranded restriction fragments captured by an undigested complementary sequence, <u>Nucl. Acids. Res.</u> 28(8):e31 (2000).
DE	Clegg et al., Genetic characterization of a brain-specific form of the type I regulatory subunit of cAMP-dependent protein kinase, <u>Proc. Natl. Acad. Sci. USA</u> 85:3703-7 (1988).
DF	Coghlan et al., Association of Protein Kinase A and Protein Phosphatase 2B with a Common Anchoring Protein, <u>Science</u> 267:108-111 (1995).
DG	Colledge, M and J.D. Scott., AKAPs: from structure to function, <u>Trends in Cell Biology</u> 9:216-21 (1999).
DH	Corder et al., Gene Dose of Apolipoprotein E Type 4 Allele and the Risk of Alzheimer's Disease in Late Onset Families, <u>Science</u> 261:921-3 (1993).
DI	Database WPI, Derwent publication # 011635345 citing International Patent Application WO 9747974 of the parent French Patent Application FR 2,749,662.
DJ	Eftedal et al., Consensus sequences for good and poor removal of uracil from double stranded DNA by uracil-DNA glycosylase, <u>Nucl. Acids Res.</u> 21(9):2095-101 (1993).
DK	Faux, M.C. and J.D. Scott., More on target with protein phosphorylation: conferring specificity by location, <u>Trends Biochem</u> 21:312-5 (1996).
DL	Fu et al., Efficient preparation of short DNA sequence ladders potentially suitable for MALDI-TOF DNA sequencing, <u>Genetic Analysis: Biomolecular Engineering</u> 12:137-42 (1996).
DM	Fu et al., Sequencing Exons 5 to 8 of the p53 Gene by MALDI-TOF Mass Spectrometry, <u>Nature Biotechnol.</u> 16:381-4 (1998).
DN	Fu et al., A DNA sequencing strategy that requires only five bases of known terminal sequence for priming, <u>Proc. Natl. Acad. Sci. USA</u> 92:10162-66 (1995).
DO	Fu et al., Sequencing double-stranded DNA by strand displacement, <u>Nucl. Acids Res.</u> 25(3):677-9 (1997).
DP	Gabbita et al., Decrease in Peptide Methionine Sulfoxide Reductase in Alzheimer's Disease Brain, <u>J. Neurochemistry</u> 73(4):1660-6 (1999).
DQ	Glantz et al., Characterization of Distinct Tethering and Intracellular Targeting Domains in AKAP75, a Protein That Links cAMP-dependent Protein Kinase II $\beta$ to the Cytoskeleton, <u>J. Biol. Chem.</u> 268(17):12796-804 (1993).

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## OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

DR	Goldmacher <i>et al.</i> , Photoactivation of toxin conjugates, <i>Bioconj. Chem.</i> 3:104-107 (1992)
DS	Guatelli <i>et al.</i> , Isothermal, <i>in vitro</i> amplification of nucleic acids by a multienzyme reaction modeled after retroviral replication, <i>Proc. Natl. Acad. Sci. USA</i> 87:1874-8 (1990).
DT	Hausken <i>et al.</i> , Mutational Analysis of the A-Kinase Anchoring Protein (AKAP)-binding Site on RII, <i>J. Biol. Chem.</i> 271(46):29016-22 (1996).
DU	Hazum <i>et al.</i> , A photocleavable protecting group for the thiol function of cysteine, in <i>Pept., Proc. Eur. Pept. Symp., 16th Brunfeldt, K (ed), pp. 105-110- (1981)</i>
DV	Higgins <i>et al.</i> , Competitive Oligonucleotide Single-Base Extension Combined with Mass Spectrometric Detection for Mutation Screening, <i>BioTechniques</i> 23(4):710-4 (1997).
DW	Higgins <i>et al.</i> , DNA-Joining Enzymes: A Review, <i>Methods in Enzymology</i> 68:50-71 (1979).
DX	Higley <i>et al.</i> , Processivity of uracil DNA glycosylase, <i>Mutation Research, DNA Repair</i> 294:109-116 (1993).
DY	Hinton <i>et al.</i> , The application of robotics to fluorometric and isotopic analyses of uranium, <i>Laboratory Automation &amp; Information Management</i> , NL, Elsevier Science publishers BV., Amsterdam, Vol. 21 no. 2/03, pp. 223-227, December 1, 1993.
DZ	Huang <i>et al.</i> , D-AKAP2, anovel protein kinase A anchoring protein with a putative RGS domain, <i>Proc. Natl. Acad. Sci. USA</i> 94:11184-9 (1997).
EA	Hubbard, M.J. and P. Cohen., On target with a new mechanism for the regulation of protein phosphorylation, <i>Trends Biochem. Sci.</i> 18:172-77 (1993).
EB	Instrumentation; "Nano-Plotter" from GeSiM, Germany, located at <a href="http://www.gesim.de/np-intro.htm">http://www.gesim.de/np-intro.htm</a>
EC	Instrumentation; "Model CRS A 255" robot "Digital Servo Gripper" "Plate Cube" system. "lid parking station" "shaker" Robocon Labor-und Industrieroboter Ges.m.b.H of Austria ("Robocon")

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## OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

ED	Instrumentation; "MJ Microseal" plate sealer; Thermal Cycler Accessories: Sealing Options, Sealing Products, MJ Research, located at <a href="http://www.mjresearch.com/html/consumables/ealing/sealing_products.html">http://www.mjresearch.com/html/consumables/ealing/sealing_products.html</a>
EE	Instrumentation; "Genesis 200/8" (200 cm with including an 8-tip arm) liquid handling systems; Tecan AG of Switzerland ("Tecan"), TECAN Products for Diagnostics and Life Science, located at <a href="http://www.tecan.ch/index.htm">http://www.tecan.ch/index.htm</a>
EF	Instrumentation; Bar code systems, including one and two dimensional bar codes, readable and readable/writable codes and systems; Datalogic S.p.A. of Italy ("Datalogic") located at <a href="http://www.datalogic.com">http://www.datalogic.com</a>
EG	Instrumentation; DYNABEADS, streptavidin-coated magnetic beads; from Dynal, Inc. Great Neck, NY and Oslo Norway
EH	Instrumentation; "Multimek 96" automated pipettor; Beckman Coulter, Inc. located at <a href="http://www.coulter.com">http://www.coulter.com</a> , 09/08/99
EI	International Search Report for International Application No. PCT/US00/08111, Date of Mailing November 13, 2000.
EJ	Jahnsen et al., Molecular Cloning, cDNA Structure, and Regulation of the Regulatory Subunit of Type II cAMP-dependent Protein Kinase from Rat Ovarian Granulosa Cells, <u>J. Biol. Chem.</u> 261(26):12352-61 (1986).
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